

**Former Electrolux Jefferson Site
Jefferson, Iowa
Webinar Discussion – August 26, 2015**

RCRA



555451





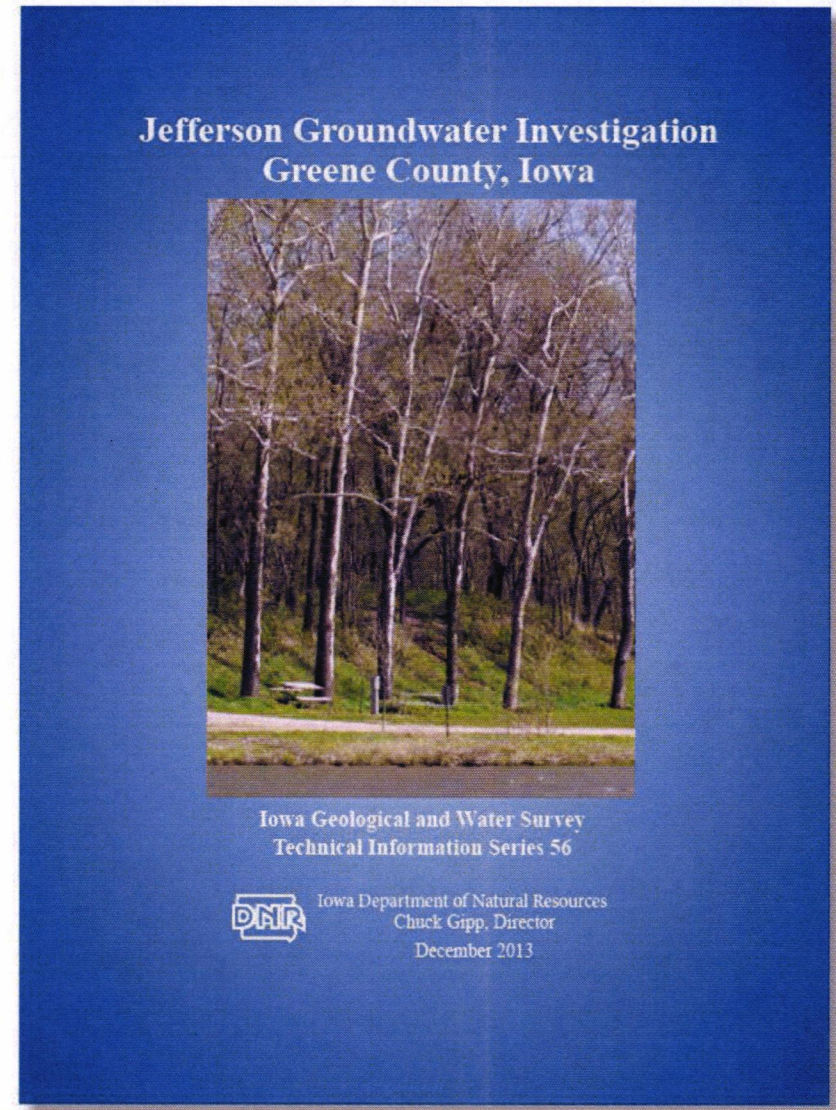
June 23, 2015 Meeting Follow-up Items

- Sampling of Pleistocene sand and gravel
- Confirm horizontal delineation of VOC impacts in yellow-brown till
- ■ EPA information requests



Research on Pleistocene Sand and Gravel

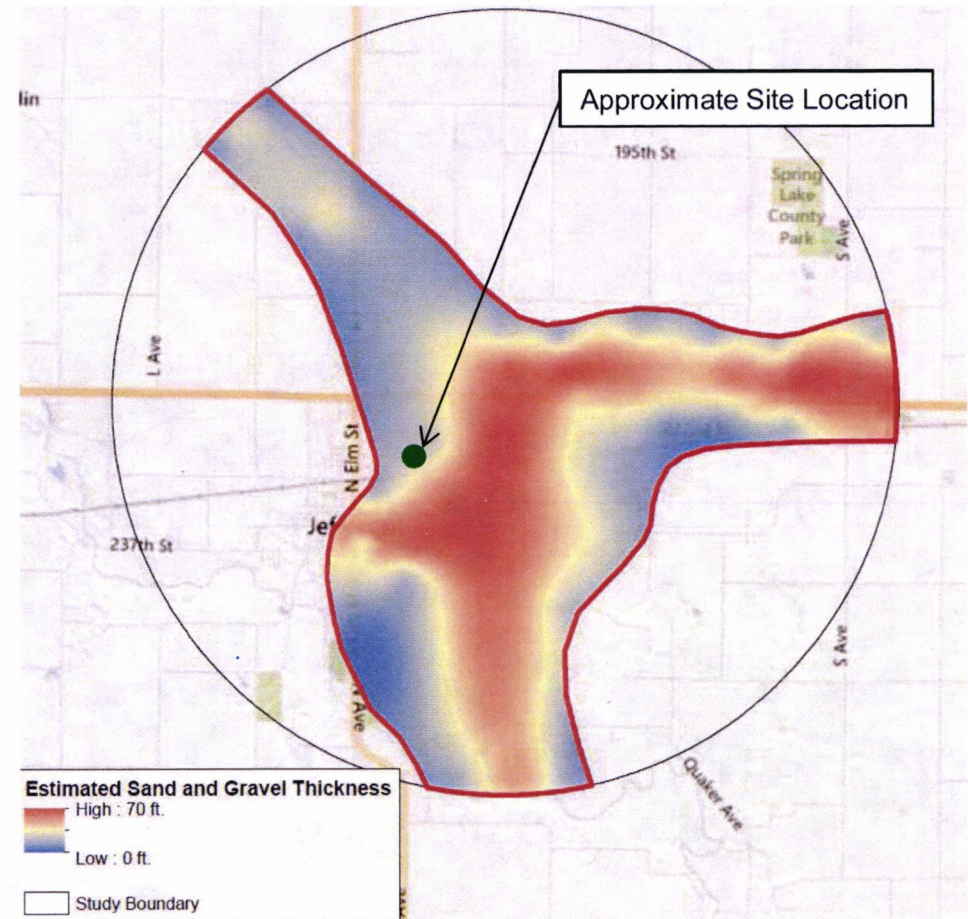
- Conducted by Iowa Dept. of Natural Resources
- Iowa Source Water Protection Program
- Funded by USEPA
- Purpose: to delineate source water capture zone for City of Jefferson Water Supply Wells
- Scope –
 - Collate existing data
 - Conduct ER survey
 - Model capture zone

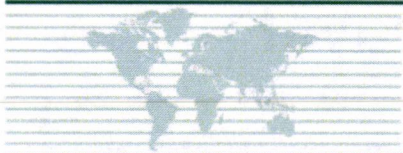




Sand and Gravel Extent and Thickness

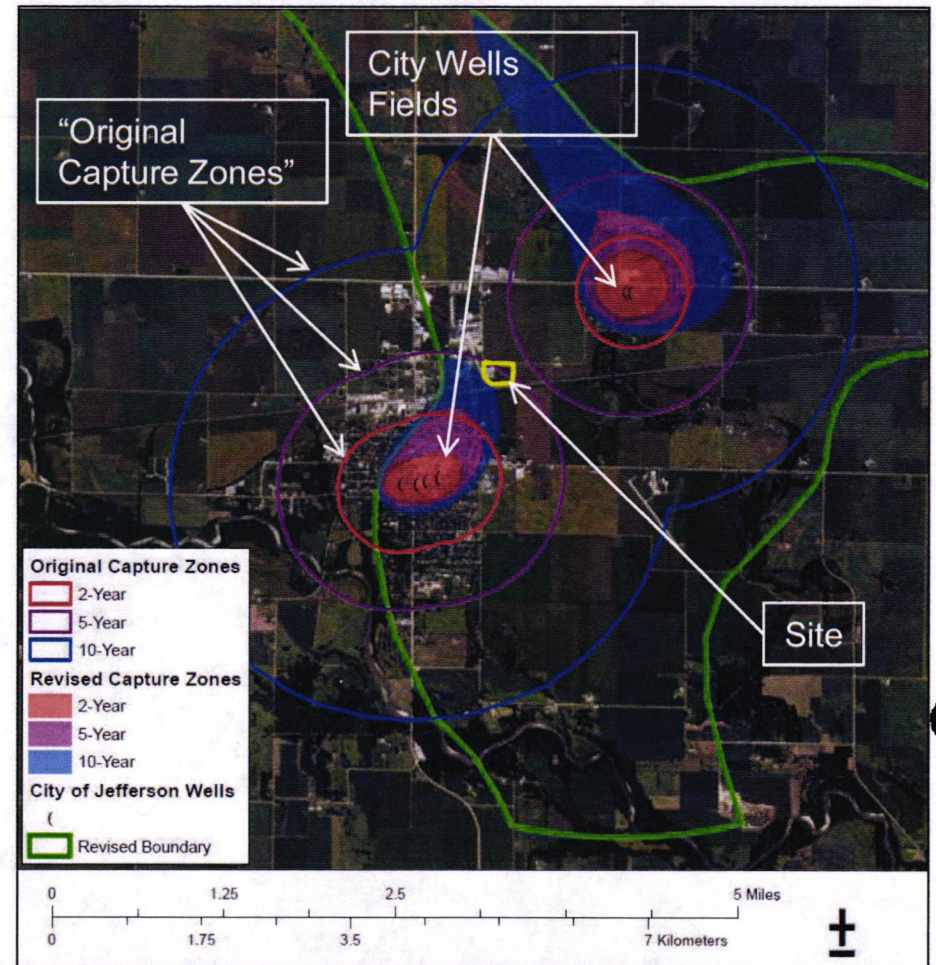
- Based on boring logs and ER survey
- Thickness ranges from 0 to approximately 70 feet
- The geophysical models suggest that a “consistently thick sequence of glacial till (>100 ft. thick)” overlies the sand and gravel unit





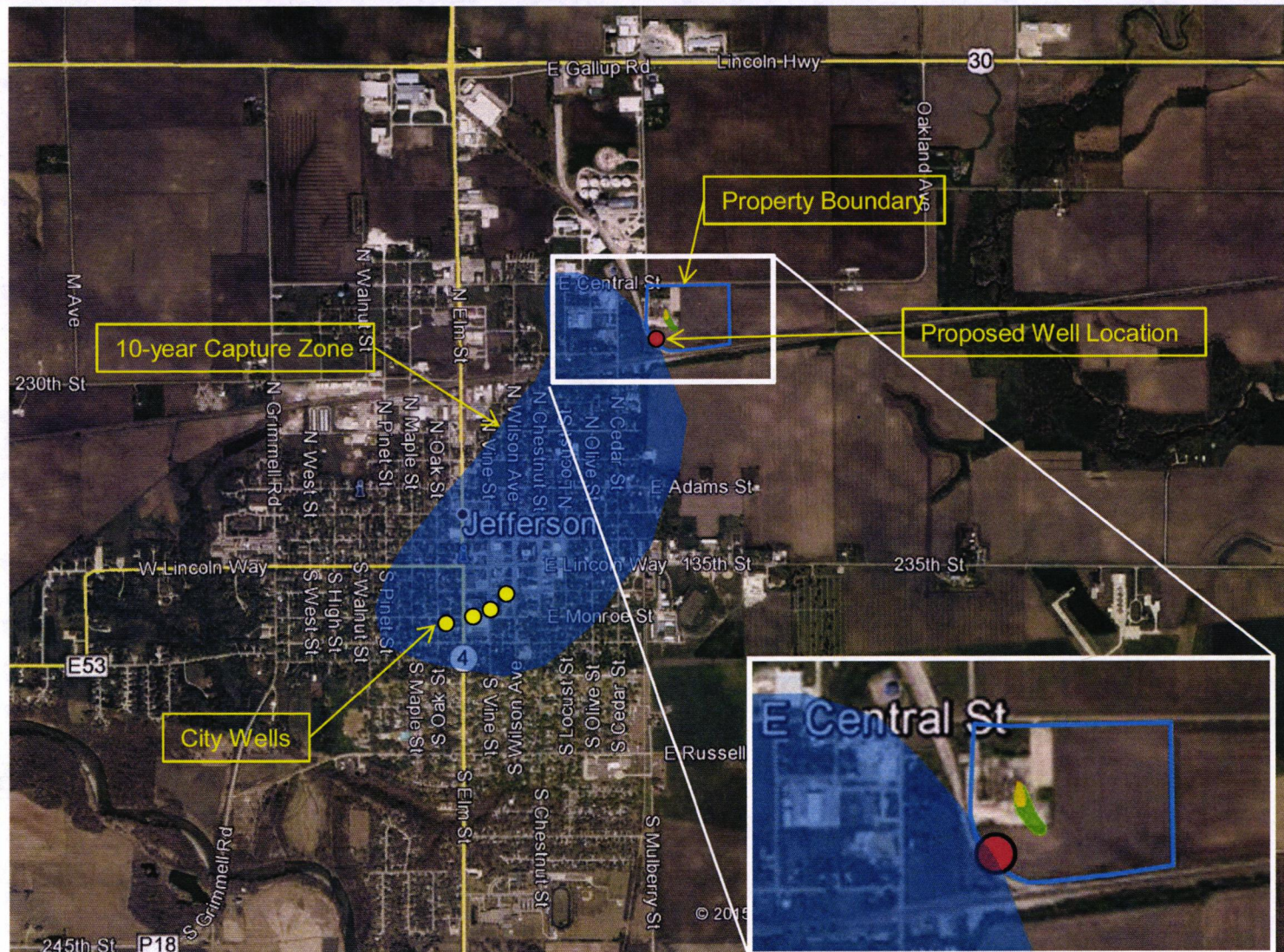
Capture Zone Analysis

- City Operates two well fields
 - 3 wells to the northeast
 - 4 wells to the southwest
- “Original Capture Zones” based on “fixed radius circle capture zones” – no longer valid
- “Revised Capture Zones” based on updated geologic model and new groundwater flow model

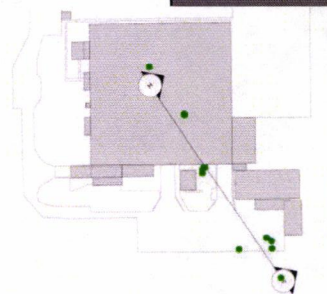




Proposed Pleistocene Sand and Gravel Monitoring Well Location

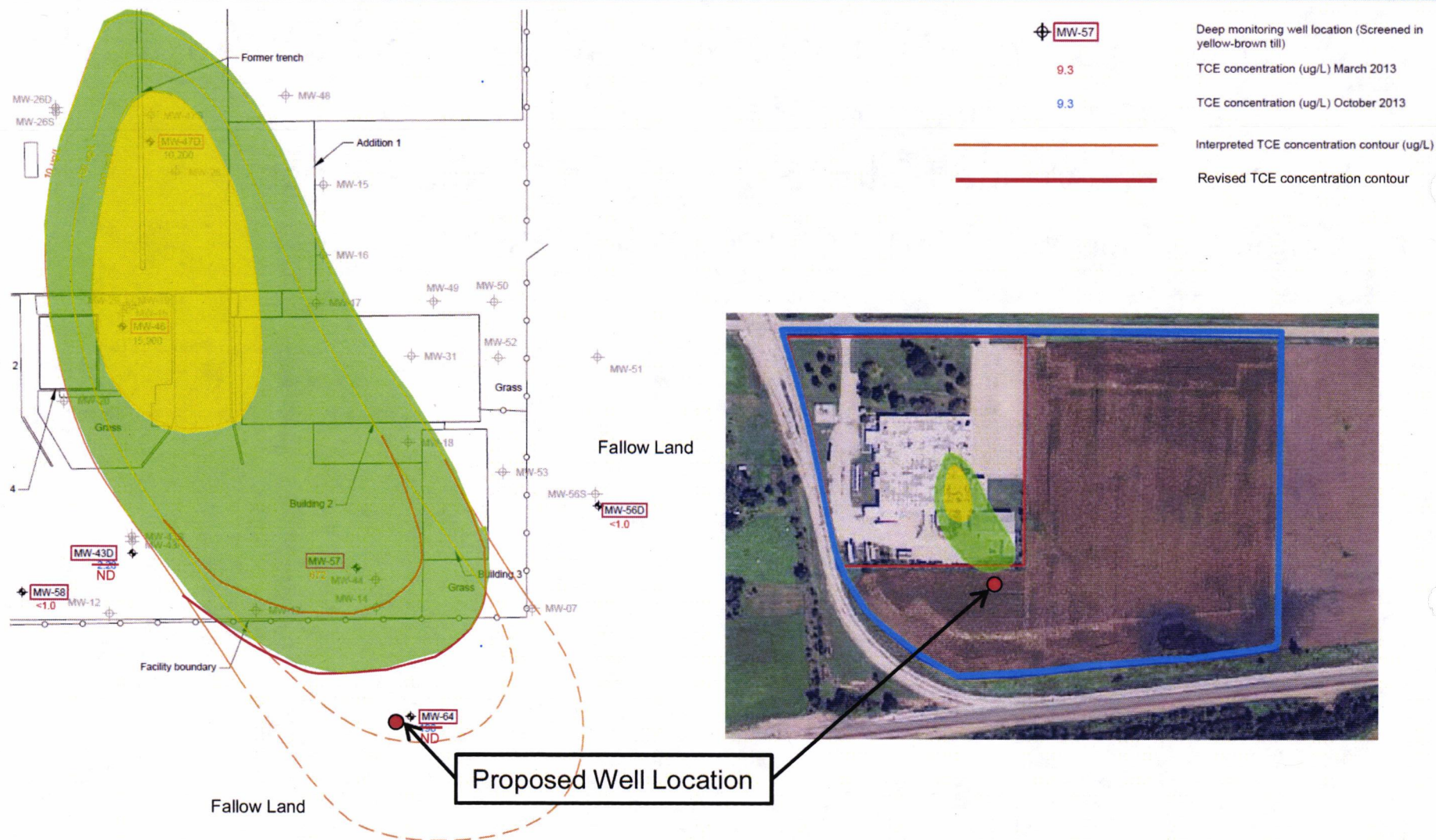








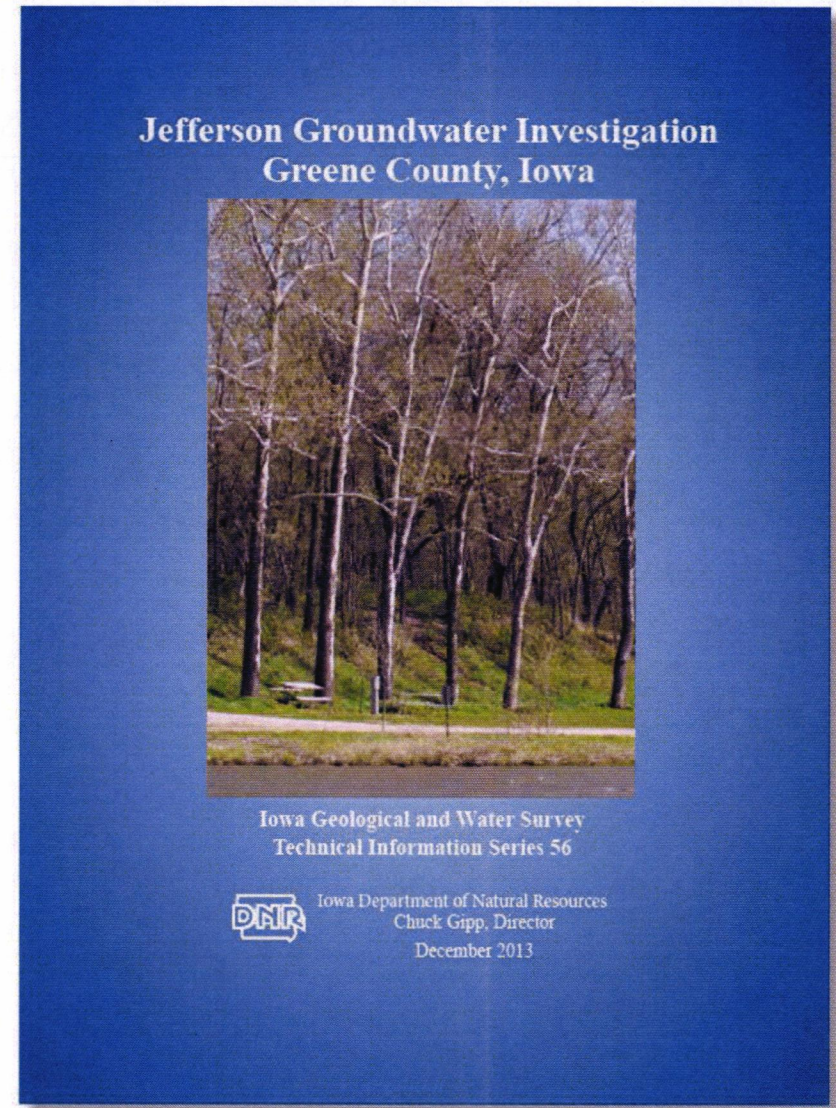
Proposed Additional Yellow-brown Till Monitoring Well





Research on Pleistocene Sand and Gravel

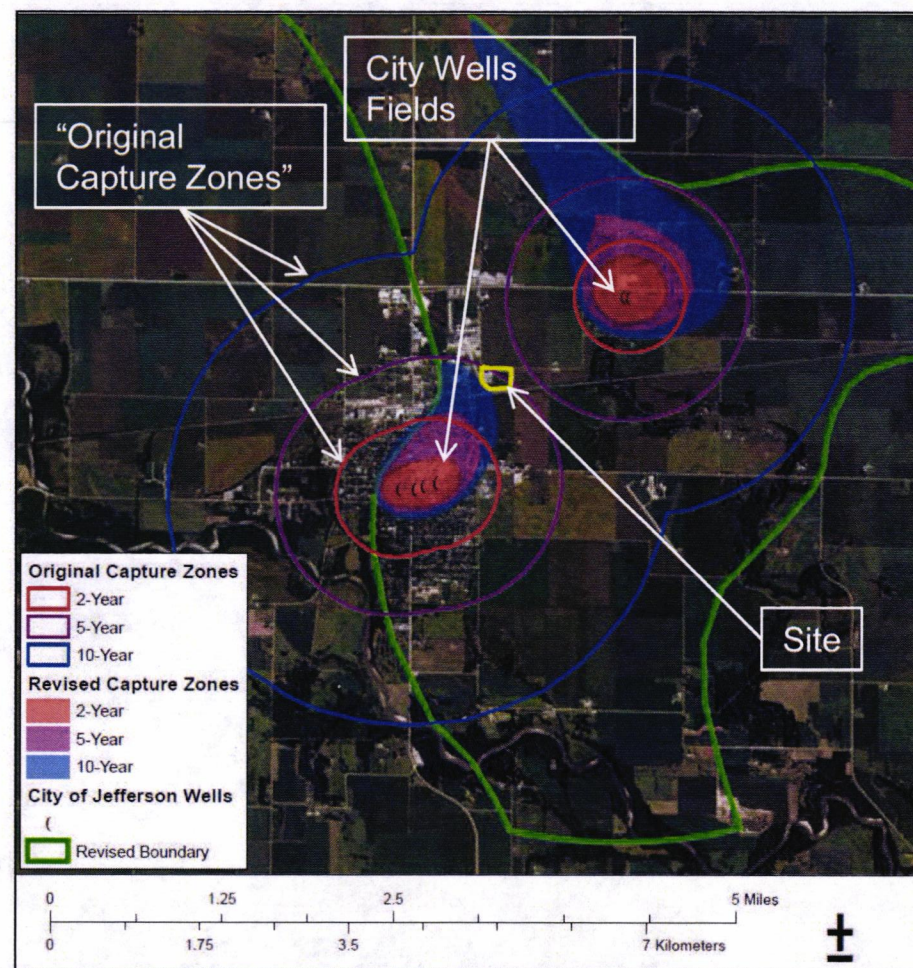
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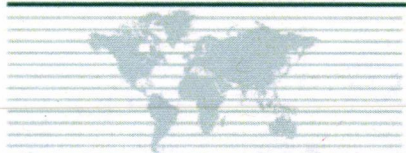




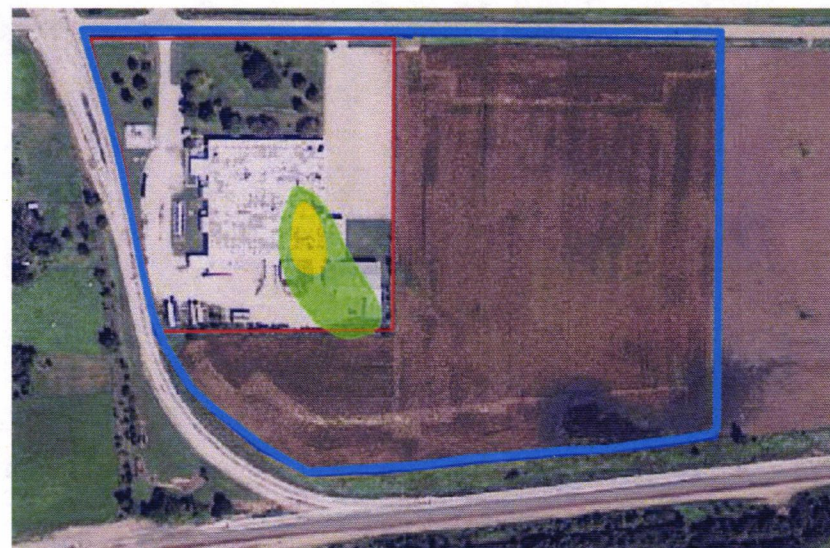
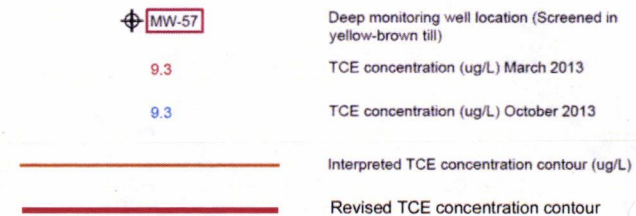
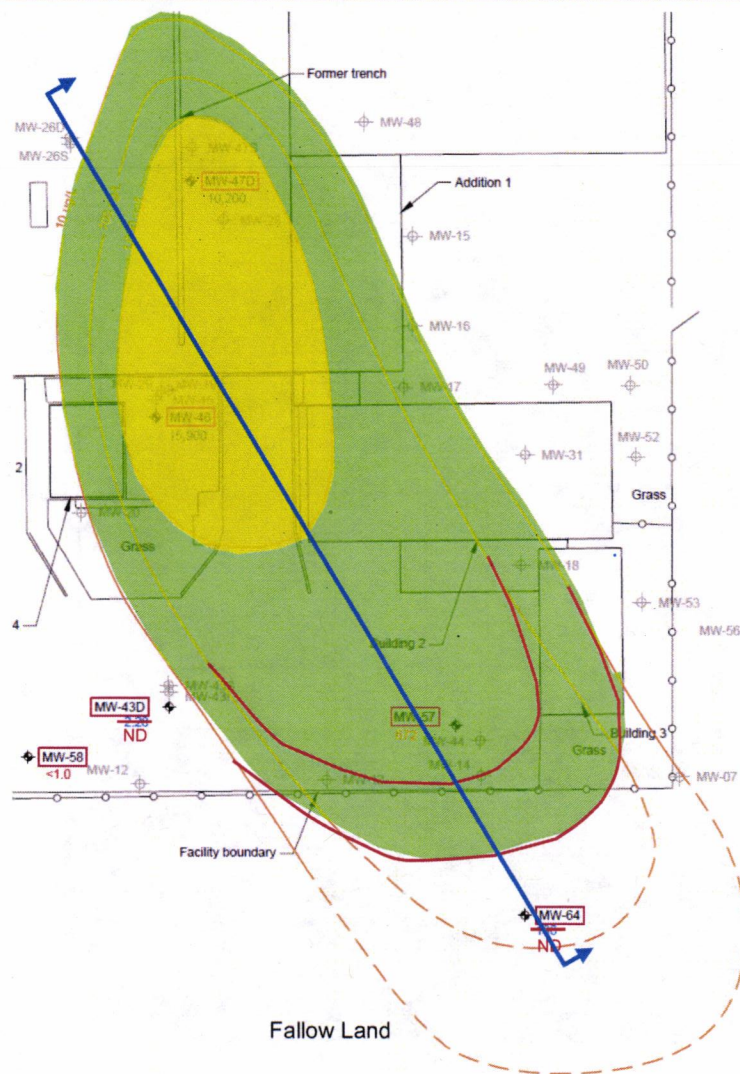
Capture Zone Analysis

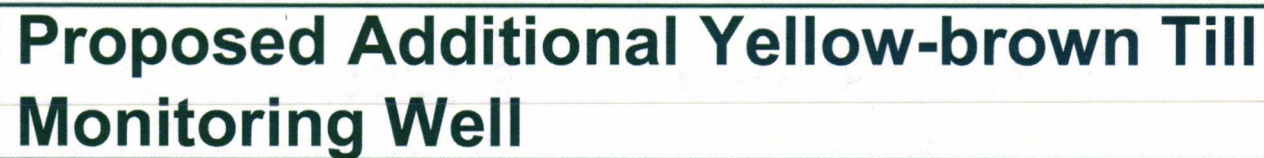
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TCE Concentrations in Yellow-brown Till Groundwater







EPA Information Requests

- Water quality comparison between monitoring wells MW-46 and MW-65
- Summary table of analytical data
- List of wells screened 0 to 15 ft. bgs and 15 to 30 ft. bgs
- Single .pdf file with all boring and well installation logs